

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION
INVENTOR(S): John B. Langley
ATTORNEY DOCKET NO.: 012.P6002

-Replacement Sheet-



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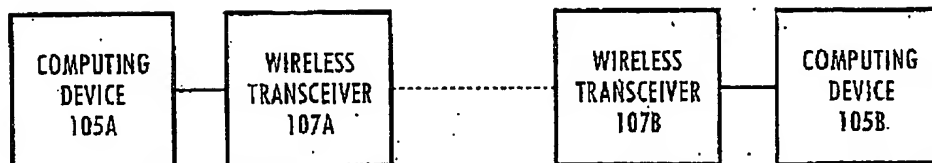


FIG. 1

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION

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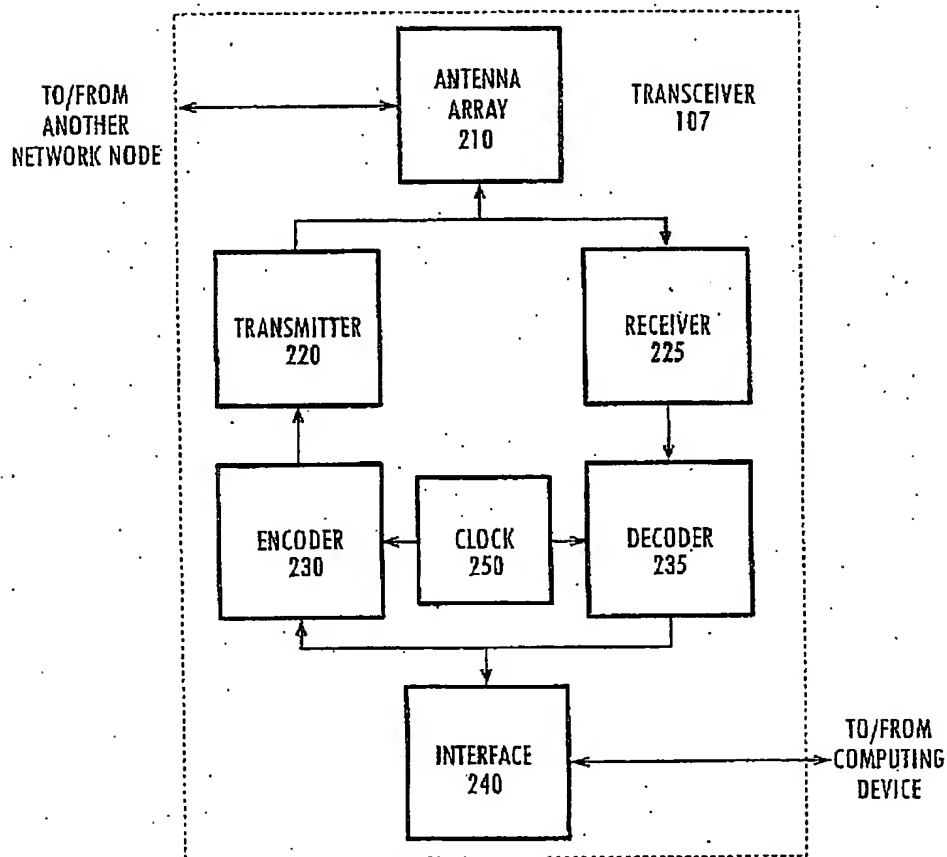


FIG. 2

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION

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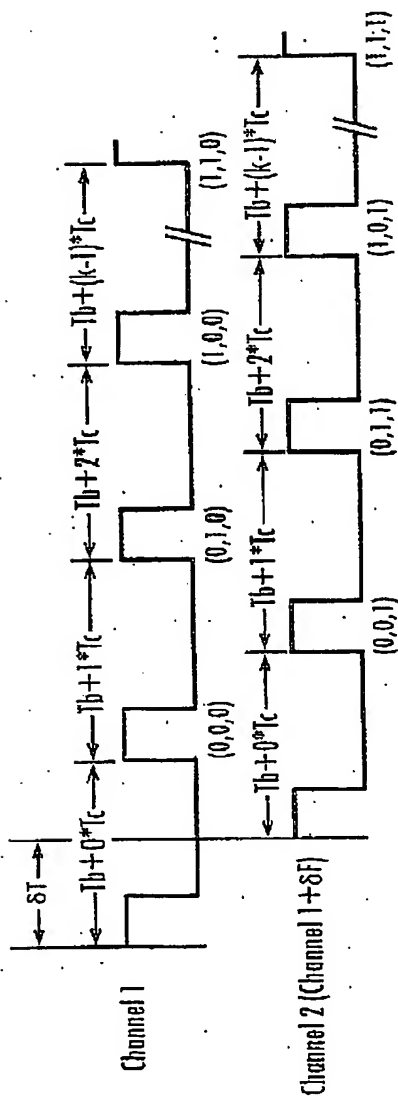


FIG. 3

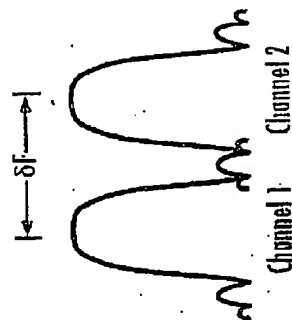


FIG. 4

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION

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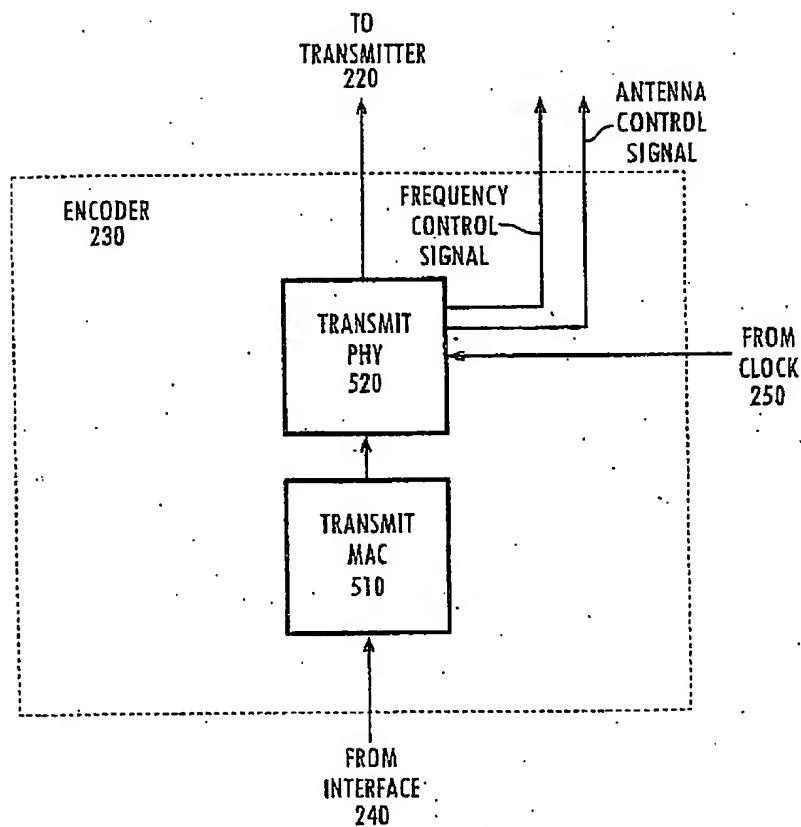


FIG. 5A

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION

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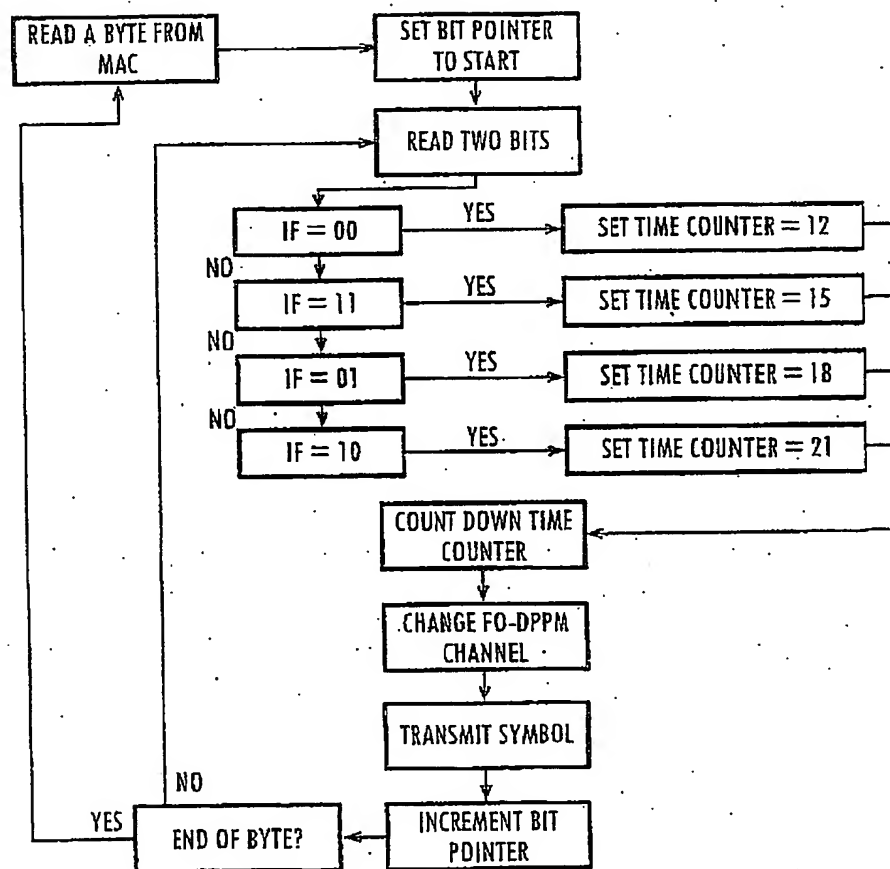


FIG. 5B

TITLE:FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION

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Request/events assertion to transmit state machine in the order of priority:

- `sx_idle`: ATR is idle and ready for access by all nodes
- `ack_req`: request for acknowledge transmission from the `rx_mac`
- `tx_req`: packet is queued for transmission

```
Wait 10 us (TimeOut) in this state for
rx_idle to get asserted, otherwise Do
not send the ack-packet since another
node has violated the IPG
```

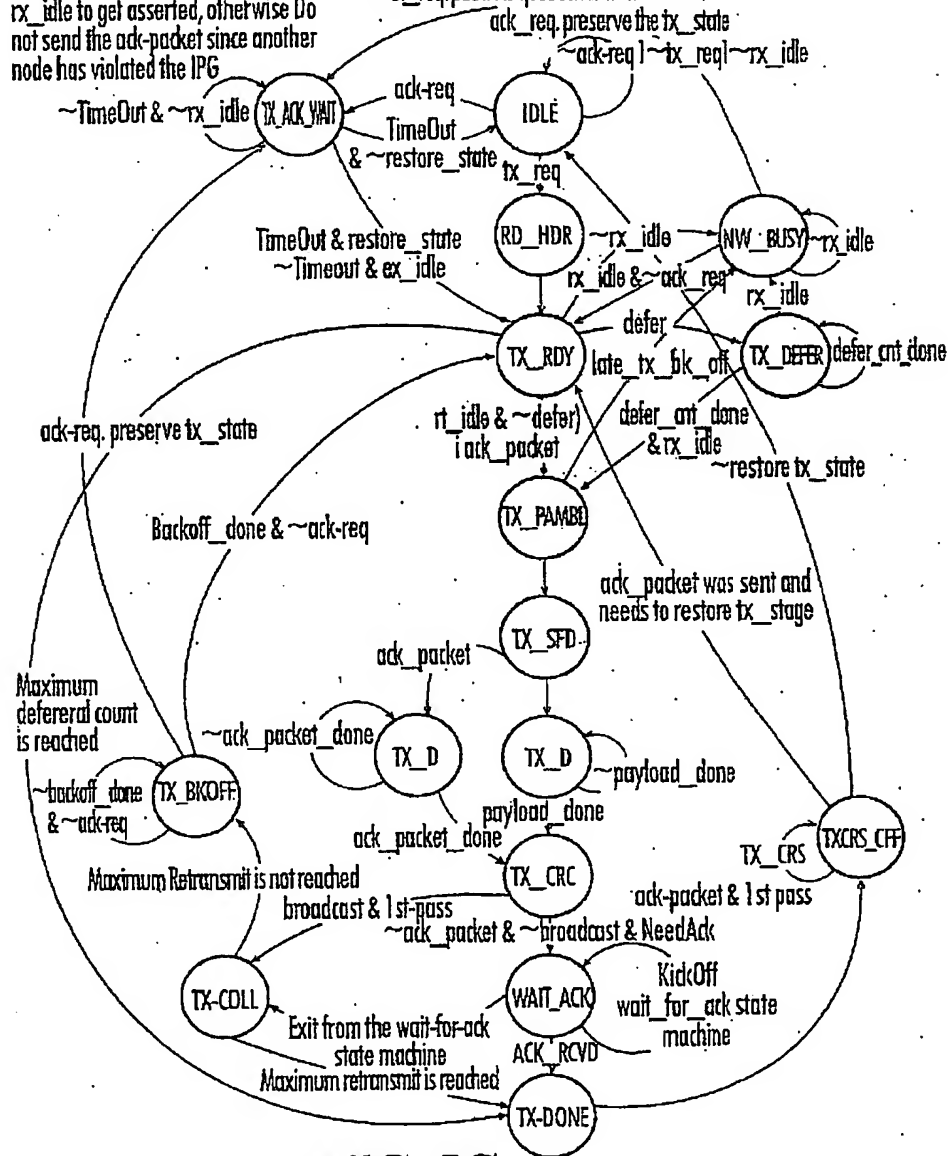


FIG. 5C

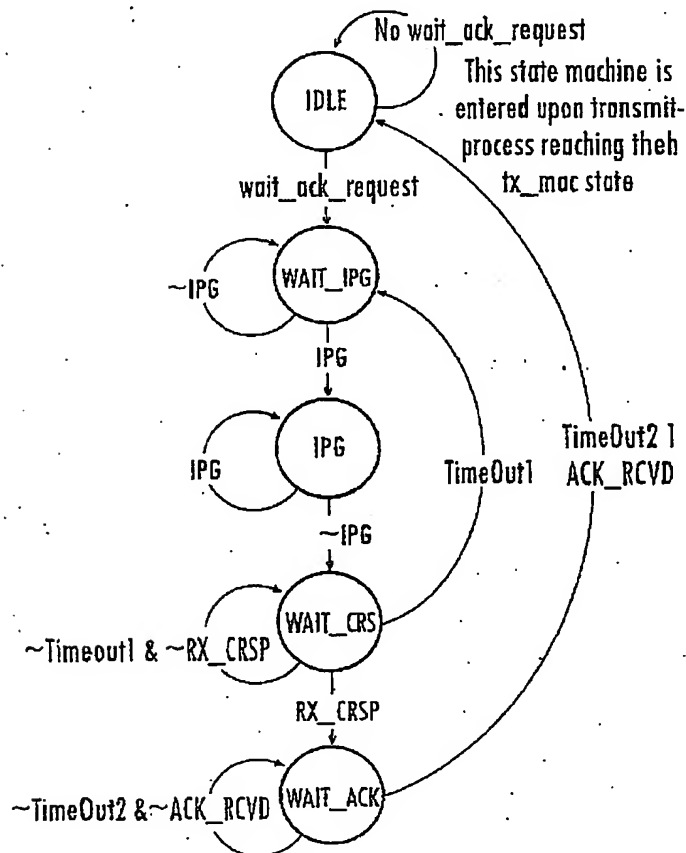
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Timeout1, Programmable parameter ACK_WAIT_SIZE:

6, 12, 18, 24, 36, 48, 72, 90 US

Timeout2, fixed size: 37.125 us which is the maximum length of an acknowledge packet (24 preamble + sfd + 20 byte ack_packet)

FIG. 5D

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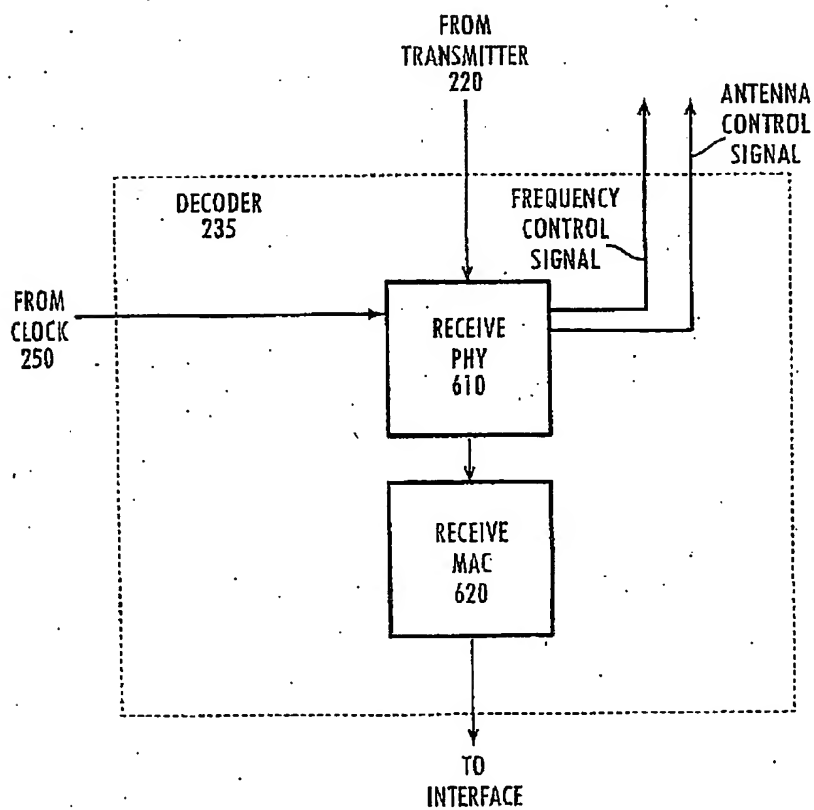


FIG. 6A

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION
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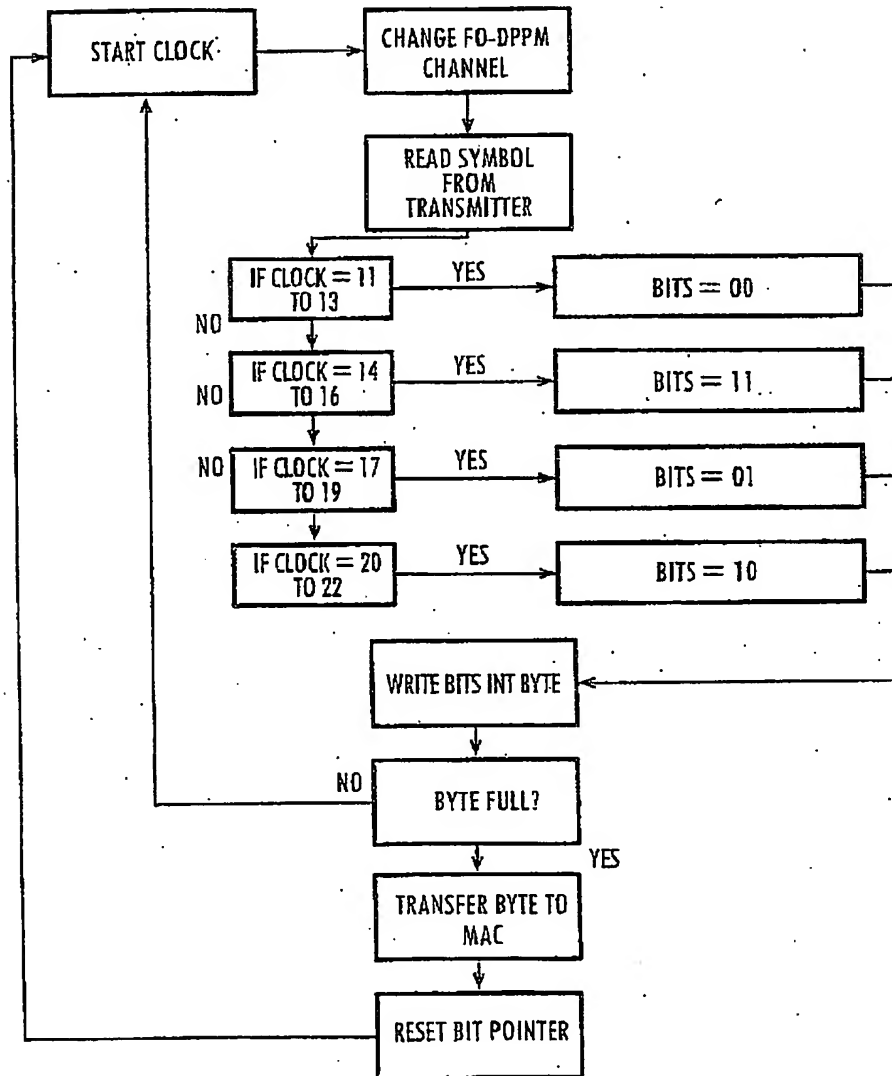


FIG. 6B

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION

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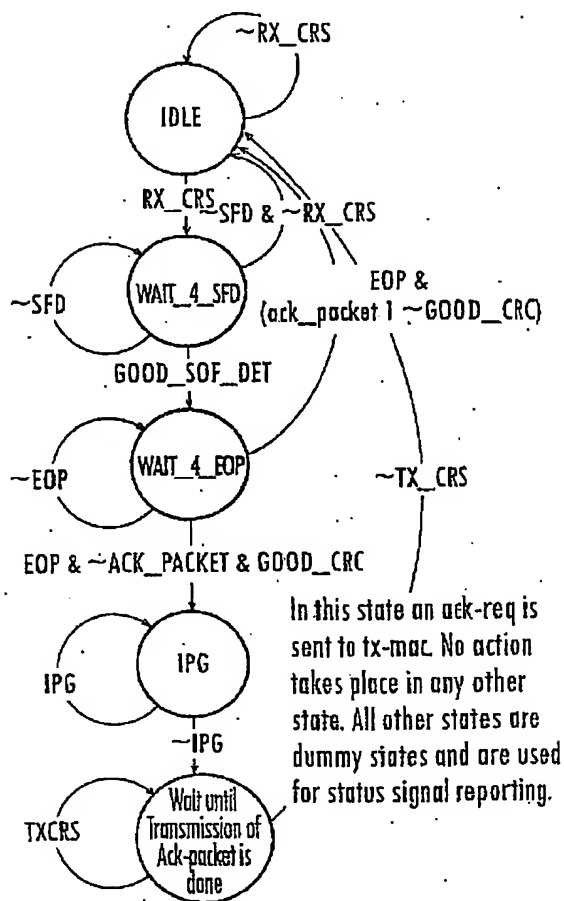


FIG. 6C

TITLE: FREQUENCY OFFSET DIFFERENTIAL PULSE POSITION MODULATION
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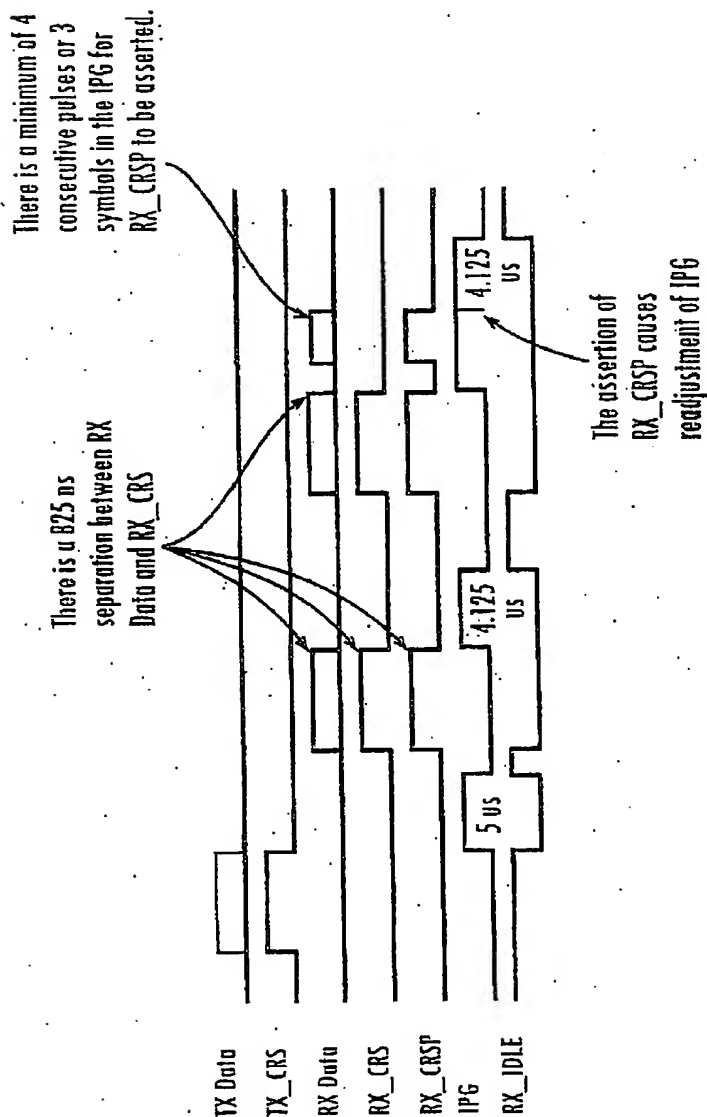


FIG. 6D

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For preamble the following sequence is received: 00, 11, 01, 10 and the state machine tries to lock on this sequence. For SFD the sequence is 00, 00, 01, 11



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